



# hf happenings

no 488



South African Radio League 1925 - 2011 Suid-Afrikaanse Radioliga  
Member Society of the International Amateur Radio Union Region 1  
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## How to Make Long Distance VHF Contacts during the Pears National VHF/UHF Contest

Mike, ZS2FM, says the PEARS National VHF/UHF contest starts at 18:00 CAT on Friday 20 January and ends at 14:00 CAT on Sunday 22 January 2012 and is divided into two sessions. For full details and rules, see the 2012 Blue Book (SARL Contest Manual) or visit the PEARS web site at [www.zs2pe.co.za](http://www.zs2pe.co.za).

Please note that in the PEARS contest, SSB and CW share the same contest frequencies. This is a wonderful opportunity to work long distances especially on 50 and 144 MHz with many VHF amateurs on frequency from other divisions. Here are some pointers.

1. Make regular short CQ calls on the contest frequencies of 50,200 MHz USB and/or 144,200 MHz USB and carefully listen for weak long distance VHF signals. When the frequency is occupied then call five to ten kilohertz higher in frequency. Do not have chats on the long distance frequencies, and remember to tune between 50,200 MHz and 50,220 MHz for other VHF stations when the calling frequency is occupied.

2. If the SSB signals are marginal or unreadable then give a call on CW, which could result in a two-way contact. A CW signal is readily audible on Upper Sideband when it is transmitted about one kilohertz higher in frequency.

3. It is important to know when and in what direction to point your beam antenna. It is recommended that on the hour to the half hour transmit or listen in a northerly/southerly direction, and on the half hour to the hour turn the beam in an easterly/westerly direction. This way many distant contacts can be made.

4. Keep an eye on VHF beacons for band openings, such as ZS2X/b on 50,006 MHz, V51VHF on 50,300 MHz, ZS6JON on 50,050 MHz, ZS6TWB on 50,044 MHz, ZS5SIX on 50,321 MHz and ZS3SVD/B on 50,082.5 MHz.

Even if you are not interested in contests, come on the air and work some long distance VHF stations for fun, and give the VHF contestants some points. Good luck in the contest and enjoy the challenge.

## SARL 80 m Club Championship

The SARL 80 m Club Championship is a series of short weekday evening contests on 80 m based around competition between affiliated radio clubs. Individual scores in every event count towards a radio club's overall score so it is important for the club to get members to come on in as many sessions and as many modes as possible.

The first contest for 2012 takes place from 19:30 to 20:30 CAT on Wednesday 25 January 2012 and it will be a CW contest. The exchange is a RST report and a consecutive serial





number starting at 001. You can take part as a Single Operator or with some club members as a Multi-operator station. Make use of the band segment 3 510 - 3 560 kHz.

You score one (1) point per QSO and your log must be submitted by 23:59:59 CAT 1 February to [zs4bfm@netactive.co.za](mailto:zs4bfm@netactive.co.za)

### XT2CEFIG on the air

Jean-Jacques, TU2OP, reports. "Following a successful presentation in the press, I am now happy to report that the ARBF (Burkina Faso) Board has decided to officially open their amateur radio club to visitors. This event will take place on 21 January 2012. This radio club will have a special call sign XT2CEFIG. While waiting for the STARS donated equipment, the club will start operating with equipment borrowed from a kind radio amateur. The gear will essentially consist of a wide band dipole, an HF transceiver and a VHF station to remote all the QSO to a local radio station. Numerous politicians are expected to attend this event. We hope that many of you will be able to put XT2CEFIG in your logbook. Burkina Faso is back on the air again!

Look for them on 7,085 LSB, 14,120 to 14,240, 21,120 and the whole SSB part of 10-metres. Do not be too harsh with them; be indulgent because you will have to deal with novices without any experience. Good DX"

### Special call signs for UK radio amateurs during 2012

The Radio Society of Great Britain and Ofcom have reached agreement on the optional use of special call signs for two significant events during 2012.

For the Queen's Diamond Jubilee, all UK amateur stations will have the option of applying for a variation to their licence if they wish, to use a special prefix for a five-week period. This will add or substitute the letter "Q" in the place of the Regional identifier in the call sign. Period: 00:00 BST 5 May 2012 to 23:59 BST 10 June 2012.

For the period of the Olympic Games and Paralympic Games, a similar facility will exist for a seven-week period, using the letter "O." Period: 00:00 BST 21 July 2012 to 23:59 BST 9 September 2012.

Read the full details at <http://www.rsqb.org/news/articlelinks.php?id=0263>

### EI80IRTS Award

The Irish Radio Transmitters Society was founded in 1932 and we are proud to celebrate our 80<sup>th</sup> anniversary in 2012. As part of the celebrations the Society will be using the special call sign EI80IRTS. A special certificate, available to all amateurs and SWLs, is being offered to celebrate this wonderful occasion during the period of 1 January 2012 to 31 December 2012.

This award is being sponsored by Dundalk Amateur Radio Society, full details of the award can be viewed at <http://www.ei7dar.com/ei80irts.html>

### Geocaching

#### January 2012

*1 New Years Day; start of the 2012 CQ Marathon; start of the ARRL Diamond DXCC Challenge; start of UBA International Prefix Hunt 2012; start of the IOTA 50th Anniversary Marathon*  
*2 Public Holiday*  
*11 Coastal schools open*  
*18 Inland schools open*  
*20 – 22 PEARS National VHF/UHF Contest*  
*22 – 23 Classic Car and Bike Show, Timour Hall, Plumstead*  
*25 SARL 80 metre Club Contest*  
*28 Summer QRP Contest; Ottosdal Draif en Trap; Totalsports Xterra Triathlon*





Those readers who follow the Zone 38 Facebook page and receive the ZS-WAGS notification mails will see I often mention Geocaching when I mention about grids I will be activating with my travels. I have found 54 geocaches so far, 52 in South Africa and one in Bulgaria and one in Friedrichshafen, Germany. I have hidden seven geocaches, three in the North West Province and four in the Free State. Geocaching is a worldwide activity.

Now what is this Geocaching thing? It is FUN and it involves finding a hidden cache/treasure and then reporting your find. Some caches are at historic sites (a block house in the Karoo, a block house south of Springfontein, at Matjiesfontein, at the Sand River Convention monument), some along the street where you live (sounds like a song from My Fair Lady), on a kopje near a repeater site (Potchefstroom), at a kiddies play area (Charlo, Port Elizabeth), in a wilderness area (Table Mountain, Silvermine, Karoo National Park, etc) or any where a suitable hiding place can be found. The cache containers vary from nano size to 1 litre ice cream tubs containing a logbook to record your visit and then items for exchange.

To Geocache you require access to the internet, a GPS or GPS enabled smart phone and a sense of adventure. The web site involved is [www.geocaching.com](http://www.geocaching.com) and here you will find information about geocaches in your area or along the route you are going to travel. You can then download the .LOC or .GPX file to your GPS or GPS enabled smart phone and then search for the geocaches. When you find the cache, fill in the logbook, hide the cache again and when you get home, record your finds on the web site per geocache.

On the web site, you will find a 2-minute video clip telling you more about Geocaching. You can also read what to do if you want to hide a geocache. My username on the web site - ZS4BS, what else?

### This year a day and a second longer

Jim Linton, VK3PC, says the International Earth Rotation and Reference Systems Service have decided that a positive leap second will be added to Coordinated Universal Time (UTC) at the end of June 2012. While a leap second can be added and taken from any month, it has only occurred at the end of December and June. The most recent leap was added on 31 December 2008. This will affect all time scales based on UTC, however the change to GPS will be automatic within the navigation message transmitted by satellites.

A leap second is necessary because of the Earth's unpredictable rotation. UTC is based on atomic clocks, but has been kept more or less synchronised with mean solar time by way of leap seconds. A revision of Standard-frequency and time signal emissions will be voted by the International Telecommunication Union Radiocommunication Assembly meeting, immediately before the World Radiocommunication Conference 2012 (WRC-12), in Geneva this month.

A revision of Recommendation ITU-R TF.460-6 "Standard-frequency and time-signal emissions" will be voted on, and if approved, eliminates them by 2018. Highly accurate atomic clocks will be our sole method of time. Leap seconds introduced in 1972 would end.

Meantime with this being a so-called leap year, February will have a total of 29 days instead of the usual 28, to make up for our rotation around the Sun.

### African DX

Republic of Congo, TN. Patrick, ON4HIL, Marc, ON6CC, Luc, ON4IA, Ronald, PA3EWP, Carlo, ON4BR, and Stefaan, ON4FG, will show up as TN2T from 22 to 31 January. They had to wait six months for their license! QSL via MOURX. See <http://www.tn2t.be>





Burkina Faso, XT. Jon, K3QF, is staying in Burkina Faso for the next few weeks and wants to spend time on the radio as XT2RJA mainly during the evening hours. QSL via K3QF.

Tunisia, 3V. SWL Ashraf "Ash", 3V4-002 (KF5EYY), will be active as 3V8SS from the "Radio Club Station of Tunisian Scouts" in Sousse, during the CQ 160-Metre CW Contest (27 to 29 January) as a Single-Op/Low-Power entry. QSL via LoTW or to LX1NO. Read about Ashraf on the following Web page at <http://www.qsl.net/3v4-002>

Lesotho, 7P8. Donovan, ZS2DL, will lead a team of operators to Lesotho between 9 and 19 November. The team of eight operators will be active on 80 - 10 metres focusing mainly on CW and RTTY with possibly some SSB. A call sign has not yet been assigned (currently awaiting official papers from the Lesotho Communications Authority - possibly 7P8D). Donovan is looking for operators and sponsors. QSL direct via Lesotho DXpedition 2012, P.O. Box 29169, Sunridge Park, 6008, South Africa (w/2 USDs - Please no IRC, as it is difficult to convert at the post office). An OQRS system (PayPal) will also be implemented just before the expedition. Logs will be uploaded to LoTW within 12 months after the DXpedition has ended. For more details, visit <http://www.zs2dl.co.za> or <http://www.zs2dl.co.za/7P8D.html>

Gambia, C5. Alan, G3XAG, will be active as C56XA from The Gambia between 27 February and 15 March. Activity will be on the HF bands using CW. Also, look for Alan to participation in the RSGB Commonwealth Contest (10 and 11 March). QSL via G3SWH.

## African Islands

Madeira Islands, CT9. Julius, OM7JG, will once again be active from Madeira Island (AF-014) as CT9/OM7JG during the ARRL DX CW Contest (18 and 19 February) as a Single-Op/All-Band/Low-Power entry. QSL via OM7JG.

Madeira Islands, CT9. Tibor, OM3RM, will be active as CR3A during the ARRL DX CW Contest (18 and 19 February) as a Single-Op/All-Band/High-Power entry. QSL via CT3EE. Look for him before the contest as CT9/OM3RM.

Reunion FR., Pierre, F8APV, will be active as FR/F8APV from Reunion Island (AF-016) between 22 January and 10 February. Activity will take place everyday between 01:00 - 04:00 UTC on 40 and 30 metres CW, and then between 17:00 - 19:00 UTC on 20 metres SSB. QSL via his home call sign.

Mayotte, FH. Hartwig, DL7BC will be active as TO7BC from Mayotte (AF-027) from 23 March to 6 April, including an entry in the CQ WW WPX SSB Contest. On 20 - 22 March, he will be operating under his CEPT licence as FH/DL7BC. QSL via home call, direct or bureau.

## Special Events

Ireland. Special call sign EI80IRTS will be in use throughout 2012 to celebrate the 80<sup>th</sup> anniversary of the Irish Radio Transmitters Society (IRTS). QSL via EI4GXB.

## Contest Calendar







*This week's contests compiled by Bruce Horn, WA7BNM. The period covered is 16 to 23 January 2012.*

#### Run for the Bacon QRP Contest

02:00 - 04:00 UTC 16 January

Mode: CW

Bands: 160, 80, 40, 20, 15, 10 m

Classes: Single Band; All Band

Max power: 5 watts

Exchange: RST, state, province or country and member no or power

Work stations: Once per band

QSO Points: 1 point per QSO with non-member; 3 points per QSO with member on same continent; 5 points per QSO with member on different continent

Multipliers: Each state, province or country once

Multiply mults by 2 if >50 members worked

Score Calculation: Total score = total QSO points x total mults

Submit logs by: 22 January 2012

E-mail logs to: (none)

Upload log at:

<http://www.fpqrp.com/autolog.php>

Mail logs to: (none)

Find rules at:

<http://www.fpqrp.com/fpqrpun.php>

#### QRP Fox Hunt

02:00 - 03:30 UTC 18 January

Mode: CW

Bands: 80 m Only

Classes: Single Op - fox or hound

Max power: 5 watts

Exchange: RST, state, province or country, name and power output

QSO Points: 1 point per QSO

Multipliers: (none)

Score Calculation: Total score = total QSO points

Submit logs by: 03:30 UTC 19 January 2012

E-mail logs to: (see rules)

Mail logs to: (none)

Find rules at:

[http://www.qrpfoxhunt.org/winter\\_rules.htm](http://www.qrpfoxhunt.org/winter_rules.htm)

#### AWA Linc Cundall Memorial CW Contest

23:00 UTC 18 January to 23:00 UTC 19 January and 23:00 UTC 21 January to 23:00 UTC 22 January

Mode: CW

Bands: 160, 80, 40 m

Classes: (none)

Exchange: RST, equipment year and input power (see rules for format)

QSO Points: (see rules)

Multipliers: (see rules)

Score Calculation: Total score = total QSO points

Submit logs by: 1 March 2012

E-mail logs to: [mjmurphy45@comcast.net](mailto:mjmurphy45@comcast.net)

Mail logs to: Mike Murphy, 38 North Reading St., Manchester, NH 03104, USA

Find rules at:

<http://www.antiquewireless.org/pdf/2012cunallrules.pdf>

#### NAQCC Straight Key/Bug Sprint

01:30 - 03:30 UTC 19 January

Mode: CW

Bands: 80, 40, 20 m

Classes: (none)

Max power: 5 watts

Exchange: RST, state, province or country and NAQCC no or power

Work stations: Once per band

QSO Points: 1 point per QSO with non-member; 2 points per QSO with member

Multipliers: Each state, province or country once

Key Type Mult: 2x if straight key, 1.5x if bug, 1x if other

Score Calculation: Total score = total QSO points x total mults x key type mult

Submit logs by: 23:59 UTC 22 January 2012

E-mail logs to: [naqcc33@windstream.net](mailto:naqcc33@windstream.net)

Upload log at:

<http://naqcc.n4lcd.com/sprintlog.html>

Mail logs to: John Shannon, K3WWP, 478 E. High St., Kittanning, PA 16201, USA

Find rules at:

<http://naqcc.info/sprint201201.html>





#### Locust QSO Party

02:00 - 02:28 UTC 19 January (40 m) and  
02:28 - 02:55 UTC 19 January (80 m)

Mode: CW

Bands: 80, 40 m

Classes: Single Op

Max power: 100 watts for single element antennas less than 40 feet AGL; 80 watts for single element antennas greater than 40 feet AGL; 45 watts for two element yagis or phased arrays of any number of elements; 30 watts for single 3 or 4 element yagis; 15 watts for stacked 3 or 4 element yagis  
Exchange: Name and state, province or country

Work stations: Once per band

QSO Points: 1 000 points per QSO; 5 000 bonus points for at least one QSO with K6VVA; 5 000 bonus points each for at least one QSO with Secret Swarmer station (name=Locust)

Multipliers: (none)

Score Calculation: Total score = total QSO points and bonus points

Submit logs by: 04:59 UTC 1 February 2012

E-mail logs to: [lqp55logs@k6vva.com](mailto:lqp55logs@k6vva.com)

Mail logs to: (none)

Find rules at:

[http://www.k6vva.com/lqp/LQP55\\_2012\\_Rules.pdf](http://www.k6vva.com/lqp/LQP55_2012_Rules.pdf)

#### QRP Fox Hunt

02:00 - 03:30 UTC 20 January

Mode: CW

Bands: 40 m Only

Classes: Single Op - fox or hound

Max power: 5 watts

Exchange: RST, state, province or country, name and power output

QSO Points: 1 point per QSO

Multipliers: (none)

Score Calculation: Total score = total QSO points

Submit logs by: 03:30 UTC 21 January 2012

E-mail logs to: (see rules)

Mail logs to: (none)

Find rules at:

[http://www.qrpfoxhunt.org/winter\\_rules.htm](http://www.qrpfoxhunt.org/winter_rules.htm)

#### NCCC Sprint Ladder

02:30 - 03:00 UTC 20 January

Mode: CW

Bands: 160, 80, 40, 20, 15 m

Classes: Single Op

Max power: 100 watts

Exchange: (see rules)

Work stations: Once per band

QSO Points: NA station: 1 point per QSO; non-NA station: 1 point per QSO with an NA station

Multipliers: Each US state (including KL7 and KH6) once per band; Each VE province once per band; Each North American country (except W/VE) once per band

Score Calculation: Total score = total QSO points x total mults

Submit logs by: 22 January 2012

E-mail logs to: (none)

Post log summary at:

<http://www.hornucopia.com/3830score/>

Mail logs to: (none)

Find rules at:

<http://www.ncccsprint.com/rules.html>

#### LZ Open Contest

00:00 - 04:00 UTC 21 January

Mode: CW

Bands: 80, 40 m

Classes: Single Op; Multi-Op; QRP

Max power: QRP: 5 W

Exchange: 3-Digit serial no and 3-Digit serial no received from last QSO

Work stations: Once each 30 minutes

QSO Points: 1 point per QSO

Multipliers: (none)

Score Calculation: Total score = total QSO points

Submit logs by: 31 January 2012

E-mail logs to: [LZ1GL@yahoo.com](mailto:LZ1GL@yahoo.com)

Mail logs to: (none)

Find rules at: <http://www.lzopen.com/lz-open-contest/rules/rulesF.htm>

#### YL-ISSB SSB QSO Party

00:00 UTC 21 January to 23:59 UTC 22 January

Mode: SSB

Bands: All





Classes: (none)

Exchange: RS(T), name, state, province or country and YLISB no

Work stations: Once per band

QSO Points: (see rules)

Multipliers: (see rules)

Score Calculation: Total score = total QSO points x total mults

Submit logs by: 18 March 2012

E-mail logs to: [ve1jim@ns.sympatico.ca](mailto:ve1jim@ns.sympatico.ca)

Mail logs to: Jim Flowers, VE1JIM, 13 Rufus Ave, Halifax, Nova Scotia B3N 2L4, Canada

Find rules at:

<http://www.ylsystem.org/qsoparty/qsodates.htm>

Hungarian DX Contest

12:00 UTC 21 January to 11:59 UTC 22 January

Mode: CW, SSB

Bands: 160, 80, 40, 20, 15, 10 m

Classes: Single Op All Band - CW or SSB - low or high; Single Op All Band Mixed - QRP, low or high; Single Op Single Band - Mixed, CW or SSB - low or high; Multi-Single - low or high; Multi-Multi; SWL

Max power: HP: 1 500 watts; LP: 100 watts; QRP: 10 watts

Exchange: HA: RS(T) and 2-letter county; non-HA: RS(T) and serial no

Work stations: Once per band per mode

QSO Points: 1 point per QSO with same country; 1 point per QSO with different country, same continent; 3 points per QSO with different continent; 6 points per QSO with HA station

Multipliers: Hungarian counties, once per band

Score Calculation: Total score = total QSO points x total mults

Submit logs by: 21 February 2012

E-mail logs to: [hadx@mrasz.axelero.net](mailto:hadx@mrasz.axelero.net)

Mail logs to: MRASZ, 1400 Budapest, PO Box 11, Hungary

Find rules at:

[http://www.ha-dx.com/HADX/html/rules\\_en.html](http://www.ha-dx.com/HADX/html/rules_en.html)

Feld Hell Sprint

16:00 - 18:00 UTC 21 January

Mode: Feld Hell

Bands: 160, 80, 40, 20, 15, 10 m

Classes: (none)

Max power: Standard: 100 watts; QRP: 5 watts

Exchange: (see rules)

Work stations: Once per band

QSO Points: (see rules)

Bonus Points: (see rules)

Multipliers: (see rules)

Score Calculation: (see rules)

Submit logs by: 28 January 2012

E-mail logs to: [kj8o@wowway.com](mailto:kj8o@wowway.com)

Mail logs to: (none)

Find rules at:

<http://sites.google.com/site/feldhellclub/Home/contests>

North American SSB QSO Party

18:00 UTC 21 January to 06:00 UTC 22 January

Mode: SSB

Bands: 160, 80, 40, 20, 15, 10 m

Classes: Single Op - QRP or low; Multi-Two - low

Max operating hours: Single Op: 10 hours; Multi-Two: 12 hours

Max power: LP: 100 watts; QRP: 5 watts

Exchange: NA: Name and state, province or country; non-NA: Name

Work stations: Once per band

QSO Points: NA station: 1 point per QSO; non-NA station: 1 point per QSO with an NA station

Multipliers: Each US state (including KH6/KL7) once per band; Each VE province/territory once per band; Each North American country (except W/VE) once per band

Score Calculation: Total score = total QSO points x total mults

Submit logs by: 4 February 2012

E-mail logs to: (none)

Upload log at:

<http://www.ncjweb.com/nagplogssubmit.php>

Mail logs to: Bruce Horn, WA7BNM, 4225 Farmdale Avenue, Studio City, CA 91604, USA

Find rules at:





<http://www.ncjweb.com/naqprules.php>

## Next Week's Contests

SKCC Sprint, 00:00 - 02:00 UTC 25 January  
QRP Fox Hunt, 02:00 - 03:30 UTC 25 January  
CWops Mini-CWT Test, 13:00 - 14:00 UTC, 19:00 - 20:00 UTC 25 January and 03:00 - 04:00 UTC 26 January  
NAQCC Straight Key/Bug Sprint, 01:30 - 03:30 UTC 27 January  
QRP Fox Hunt, 02:00 - 03:30 UTC 27 January  
NCCC Sprint Ladder, 02:30 - 03:00 UTC 27 January  
CQ 160-Metre CW Contest, 22:00 UTC 27 January to 22:00 UTC 29 January  
REF CW Contest, 06:00 UTC 28 January to 18:00 UTC 29 January  
BARTG RTTY Sprint, 12:00 UTC 28 January to 12:00 UTC 29 January  
UBA SSB DX Contest, 13:00 UTC 28 January to 13:00 UTC 29 January  
SPAR Winter Field Day, 17:00 UTC 28 January to 17:00 UTC 29 January  
WAB 1.8 MHz Phone, 19:00 UTC-23:00 UTC 28 January  
Classic Exchange, CW, 14:00 UTC 29 January to 08:00 UTC 30 January  
QRP ARCI Fireside SSB Sprint, 20:00 - 23:59 UTC 29 January

## History This Week

A look back at events that made history this week - compiled by the Summerland Amateur Radio Club of Lismore, NSW and Dennis, ZS4BS. The week starting Monday 16 January 2012.

1561 - Birth of Sir Francis Bacon (22 Jan 1561)  
1706 - Birth of Benjamin Franklin (17 Jan 1706)  
1840 - Charles Wheatstone and W.F. Cooke were granted the earliest English alphabetic telegraph patent.  
1853 - Birth of Andre Michelin (16 Jan 1853) - founder, with his brother, of Michelin Tyres  
1868 - A patent for a refrigerator car, "ice box on wheels," was granted to William Davis, a fish dealer in Detroit  
1882 - birth of A.A. Milne (18 Jan 1882) - author of Winnie the Pooh  
1882 - T.A. Edison was issued a patent to improve the telephone (No. 252,442). A carbon microphone  
1886 - The first automobile is made  
1896 - X-rays were first used in a clinical setting, both in America and in Germany  
1899 - Al Capone 17 Jan 1899  
1903 - Vacuum tubes were developed to allow more effective transmission of radio signals.  
1903 - King Edward VII and Pres. T. Roosevelt exchanged greetings by radio between Cape Cod and Cornwall, England.  
1909 - Ernest Shackleton finds the magnetic South Pole (16 Jan)  
1930 - Edwin "Buzz" Aldrin 20 Jan 1930 (second man on the moon with Neil Armstrong. First person to take communion in space)  
1939 - The uranium atom was split for the first time using the cyclotron at Columbia University in New York City.  
1941 - Placido Domingo 21 Jan 1941  
1942 - Muhammad Ali 17 Jan 1942







1969 - Soviet Soyuz 4 and Soyuz 5 perform the first transfer of crew in space (16 Jan)

Items used with acknowledgement to The ARRL Letter, Amateur Radio Newsline, OPDX Bulletin, 425 DX Bulletin, DXNL Bulletin, ARRL DX News, WIA-News, the RSGB News, Southgate ARC and Pete's DX Newsdesk

Newsletter editors are most welcome to use material from HF Happenings, just remember to acknowledge the source (which could be any one of the names mentioned above). HF Happenings can be provided in MS Word format

#### SARL News

Time (UTC / CAT)	Freq (kHz)		Target Area	Language
06:15 / 08:15 *	7 066 / 7 098	From Pretoria /	Southern Africa	Afrikaans
06:30 / 08:30 *	7 066 / 7 098	Port Elizabeth	Southern Africa	English
Various 2 metre and 70 cm repeaters and Echolink country wide				

#### Amateur Radio Today

Time (UTC / CAT)	Freq (kHz)		Target Area	Language
08:00 - 09:00 /	7 082	From Durban	Southern Africa	English
10:00 - 11:00 *	Various 2 metre and 70 cm repeaters and Echolink country wide			

#### Amateur Radio Today shortwave broadcast information

Time (UTC / CAT)	Freq (kHz)	Tx kW	Target Area	Language
08:00 - 09:00 /	7 205	100	Southern Africa	English
10:00 - 11:00 *	17 760	250	East Africa	English
17:30 - 18:30 /	4 895	100	Southern Africa	English
19:30 - 20:30 **				

\* Sunday \*\* Monday

#### Amateurradio in Aksie

Dorp	Frekwensie	Tyd en dekking
Bloemfontein	145,600 MHz	Maandagaande 20:30 vanaf die Naval Hill herhaler
Kaap	145,700 MHz	Maandagaande 20:30 in die Boland
Pretoria	145,750 MHz	Woensdagaand net na die ZS6MRK bulletin
Pretoria HF	3 680 kHz	Woensdagaand net na die ZS6MRK bulletin
Rustenburg	145,500 MHz	Maandagaande 20:30
Sasolburg	145,600 MHz	Maandagaande 20:00 dekking in die hele Vaaldrichhoek

